

Insulation & Rotating Machine Tester Delta Pro7



High Performance Specification

Tests all types of AC/DC motors (any voltage) including induction, synchronous, and single & three phase motors. The electrical health of all motor components is evaluated, including stator windings and rotor; associated connections and cables.

Managers and engineers who are responsible for the reliability of motors will appreciate the enhancements we added to the Delta Pro 7 because it empowers their technicians to efficiently and accurately evaluate motors whether they are in the field or on the shop floor.

This helps improve motor reliability, increase technician and asset productivity, and reduce energy consumption.

High performance features include bargraph, built-in memory, leak current and voltage testing, and DAR and PI calculation capabilities to help shorten work time associated with field insulation testing.

- Large Liquid Crystal Display with backlight
- IR, timed IR, DAR, PI
- Resistance measurement: 200 GΩ - 1 kV
- High current - 2 mA short circuit current
- Rechargeable NIMH battery + AC Adaptor
- CAT IV 600 V safety rating up to 3000 m
- Dedicated voltmeter function 1000V AC or DC
- Both Analog & Digital Display



Predict Faults Before They Happen

Detects faults at their earliest stages before motor failure, including deteriorating or contaminated insulation, as well as “deep” winding faults.



Tests Take Less Than 3 Minutes

Analyze complete stator and rotor electrical health in AC induction & synchronous motors.

Get the motor health data you need to make a quick and informed decision.

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Technical Specifications

Function	Range / Values
Test modes	Insulation resistance (PI, DAR), Voltmeter, continuity (resistance) tests, 4 - Wire low resistance test, motor direction, inductance, capacitance and resistance Meter (LCR), temperature
Insulation Resistance	
Resistance	Resistance range 100 Ω up to 200 G Ω (Resolution 0.1k Ω)
Accuracy	$\pm 2\% \pm 2$ Digit
Test Voltage	Test Voltage : upto 1 kV in 10 V steps
Accuracy	$\pm 2\% \pm 2$ Digit
Short Circuit/ Capacitor Charge Current	2 milliAmp
Guard terminal performance	Resistance range 100 Ω up to 200 G Ω (Resolution 0.1k Ω)
Voltmeter	
AC/ DC Voltage Measurement	DC : 0 - 1000 V AC : 10 mV - 1000 V
Accuracy	$\pm 3\%$
Continuity	
Measurement	0.01 Ω to 1 M Ω
Accuracy	$\pm 5\% \pm 2$ digits
Current limit	Selectable between 20 mA and 200 mA
Capacitance	
Range	0.1 nF - 1 mF
Accuracy	$\pm 6.0\% \pm 2$ digits
4- Wire Low Resistance Test	
Test current	200 mA dc
Range	1 m Ω to 20 Ω
Resolution	0.01 m Ω
Accuracy	$\pm 0.25\%$ rdg. ± 10 digits, accuracy stated includes forward and reverse Measurements.
Direction Of Motor	L1-L2-L3 or L3-L2-L1
Inductance	2mH to 1H
Diode test	0.01 V to 3.00 V

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Temperature Measurement	
Range	-20 °C to 200 °C
Instrument resolution	0.1 °C
Instrument accuracy	± 2.0 °C
Protection	500 mA, 1000V ceramic fuse, high break capacity HBC, 30 kA minimum
Interface	USB
Data Logging/Memory	Yes, 300 Results can be stored with Date/ Time stamp
Operating temperature	- 10 °C to 50 °C
Storage temperature	- 20 °C to 60 °C
Humidity	90% RH
IP rating	IP54
Safety	Meets the requirements of IEC 61010-1, CATIV 600 V
Guard terminal performance	<10 % error at 500 kΩ parallel circuit resistance with 100 MΩ load.
EMC	As per IEC61326-1
Enclosure Material	Polycarbonate
Keyboard	Alphanumeric, sealed tactile switches with backlight overlay
Weight	1 kg
Dimensions	126 x 218 x 51 mm
Battery	Rechargeable NIHM battery
Power	90 - 264 V rms AC Voltage

Ordering Information

Code	Description
DELTA Pro7	Insulation & Rotating Machine Tester Included accessories Test Cables with Alligator Clips, Quick Reference Card USB-IR Cable Installation Guide IP67 Hard Case , Temperature Probe, Kelvin Test Probe Set, Certificate of Calibration, Heavy Duty Alligator Clip Leads.

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Ordering Information - Optional Accessories

Code	Description
TL270HC3	3 mtrs. Test Lead Set with Insulated Alligator clip
TL270HC10	10 mtrs. Test Lead Set with Insulated Alligator clip
TL270HC15	15 mtrs. Test Lead Set with Insulated Alligator clip
AL270HC	Alligator Clip High Current
ATA75C	Alligator To Alligator Test Lead Set
BTA75	Banana To Alligator Test Lead Set
ATS75	Alligator Clip to Spade Lug
*Note	Other Accessories on Request